

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a member selected from the group consisting of:

(a) a polynucleotide encoding the polypeptide comprising amino acid -23 to amino acid 183 as set forth in SEQ ID NO:2;

(b) a polynucleotide encoding the polypeptide comprising amino acid 1 to amino acid 183 as set forth in SEQ ID NO:2

(c) a polynucleotide capable of hybridizing to and which is at least 70% identical to the polynucleotide of (a) or (b); and

(d) a polynucleotide fragment of the polynucleotide of (a), (b) or (c).

2. The polynucleotide of Claim 1 wherein the polynucleotide is DNA.

3. The polynucleotide of Claim 2 which encodes the polypeptide comprising amino acid -28 to 183 of SEQ ID NO:2.

4. The polynucleotide of Claim 2 which encodes the polypeptide comprising amino acid 1 to 183 of SEQ ID NO:2.

5. An isolated polynucleotide comprising a member selected from the group consisting of:

(a) a polynucleotide which encodes a mature polypeptide encoded by the DNA contained in ATCC Deposit No. 97173.

(b) a polynucleotide which encodes a polypeptide expressed by the DNA contained in ATCC Deposit No. 97173.

(c) a polynucleotide capable of hybridizing to and which is at least 70% identical to the polynucleotide of (a) or (b); and

(d) a polynucleotide fragment of the polynucleotide of (a), (b) or (c).

6. The polynucleotide of claim 2 comprising the sequence as set forth in SEQ ID NO:1 from nucleotide 1 to nucleotide 900.

7. The polynucleotide of claim 2 comprising the sequence as set forth in SEQ ID NO:1 from nucleotide 117 to nucleotide 735.
8. The polynucleotide of claim 2 comprising the sequence as set forth in SEQ ID NO:1 from nucleotide 187 to nucleotide 735.
9. A vector containing the DNA of Claim 2.
10. A host cell genetically engineered with the vector of Claim 11.
11. A process for producing a polypeptide comprising:
expressing from the host cell of Claim 12 the polypeptide encoded by said DNA.
12. A process for producing cells capable of expressing a polypeptide comprising genetically engineering cells with the vector of Claim 11.
13. A polypeptide comprising a member selected from the group consisting of (i) a polypeptide having the deduced amino acid sequence of SEQ ID NO:2 and fragments, analogs and derivatives thereof; and (ii) a polypeptide encoded by the cDNA of ATCC Deposit No. 97173 and fragments, analogs and derivatives of said polypeptide.
14. The polypeptide of claim 13 comprising from amino acid 1 to amino acid 183 of SEQ ID NO:2.
15. A compound which mimics the activity of the polypeptide of claim 13.
16. A compound which antagonizes the activity of the polypeptide of claim 13.
17. An antibody against the polypeptide of claim 13.
18. A process for identifying agonists and antagonists to the polypeptide of claim 13 comprising:

contacting a cell expressing on the surface thereof a receptor for the polypeptide, said receptor being associated with a second component capable of providing a detectable signal in response to the binding of a compound to said receptor, with a compound to be screened under conditions to permit binding to the receptor; and

determining whether the compound binds to and activates or inhibits the receptor by detecting the presence or absence of a signal generated from the interaction of the compound with the receptor.

19. A process for diagnosing a disease or a susceptibility to a disease related to a mutation in SCGF nucleic acid sequence comprising:

determining a mutation in the polynucleotide of claim 1.

20. A diagnostic process comprising:

analyzing for the presence of the polypeptide of claim 13 in a sample derived from a host.